

FIG. 1

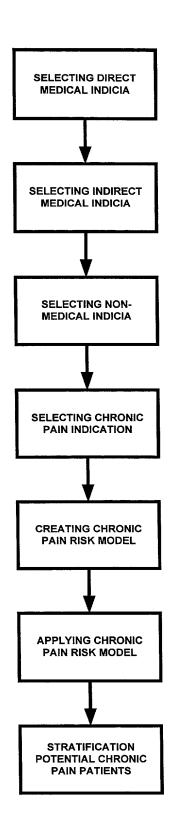


FIG. 2

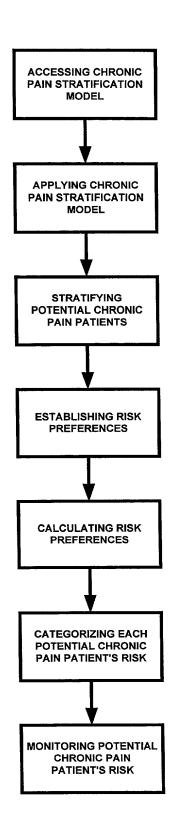


FIG. 3

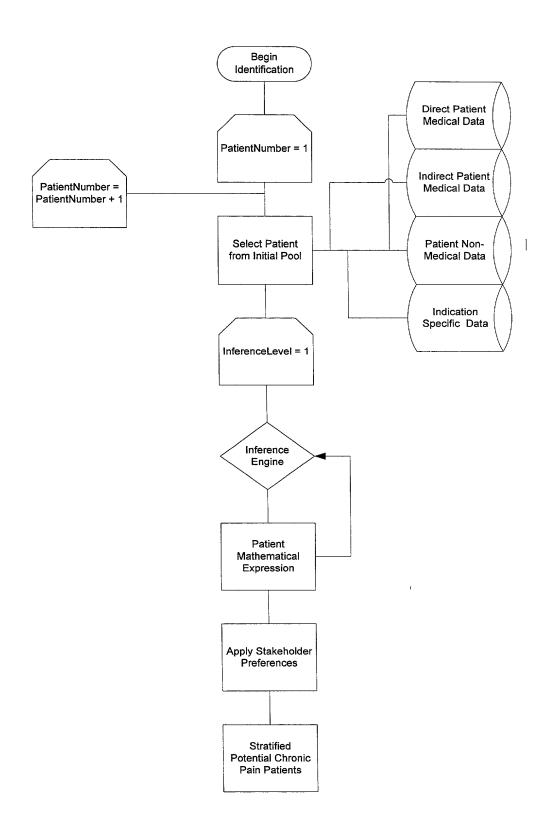


FIG. 4

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Direct Medical Indicia	Kelliarks
	The Direct Medical Indicia example used in this document relates to the lumbar
1. ICD-9-CM "Specific" Lumbar Spine Diagnoses	spine pain indication. For this example there is a specific ICD-9-CM diagnosuc
Code.	code relating to the underlying injury. The presence of this (and similar codes for
	other pain indications) is a significant indicator for the presence of pain.
2. ICD-9-CM "Non-specific" Generalized Pain	It is common for pain to be characterized in a "non-specific" manner by providers
	who are not pain treatment specialists. However, this code indicates the presence
	of pain, and is an important indicator.
3 ICD-9-CM Diagnosis Code Identifying a Co-	Chronic pain patients typically have an assortment of health problems. Patterns
	or clusters of these other health issues can be identified in the data, and more will
Spine Injury.	be learned from the inductive learning capabilities of the chronic condition
	management system.
4 ICD-9-CM "Other" Medical Condition	There are numerous known medical conditions for which pain is an associated
Diagnostic Code Clear	symptom. Often, these conditions are reflected in the medical data, while the
_	pain condition is not specifically coded. Identifying the presence of these codes
	is a significant indicator for the presence of a pain condition.
5 ICD-9-CM Procedure Codes Indicating the	There is a commonly accepted list of known ICD-9-CM procedure codes
	associated with the treatment of acute pain. The presence of one or more of these
Condition (e.g. post-operative surgical pain).	codes is a significant indicator for the presence of acute pain.
6 CPT Codes Indicating the Condition is Related	There is a commonly accepted list of known physician services (CPT) codes
	associated with the treatment of acute pain. The presence of one or more of these
	codes is a significant indicator for the presence of acute pain.
7 ICD-9-CM Procedure Codes Relating to Lumbar	There is a commonly accepted list of known ICD-9-CM procedure codes
Snine Care.	associated with lumbar spine care. It is commonly accepted that pain is often
	concomitantly associated with lumbar spine care. The presence of one or more of
	these codes is an indicator for the potential presence of lumbar spine pain.
8 ICD-9-CM Procedure Codes Relating to Lumbar	There is a commonly accepted list of known ICD-9-CM procedure codes
	associated with the treatment of lumbar spine pain. The presence of one or more
	of these codes is a significant indicator for the presence of lumbar spine pain.
9 ICD-9-CM Procedure Codes Relating to Lumbar	It is assumed that a pattern of specific treatment occurring continuously over the
	course of ≥ 91 days tends to indicate a pattern of chronicity.
(time and homogeneity).	

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** ** ** *** ****	Remarks
Direct Medical Indicia	, march
10. CPT Codes Identifying Lumbar Spine Care-	There is a commonly accepted list of known physician service (CP1) codes
related Procedures.	associated with lumbar spine care. It is commonly accepted that pain is often
	concomitantly associated with lumbar spine care. The presence of one or more of
	these codes is an indicator for the potential presence of lumbar spine pain.
11 CPT Codes Identifying Lumbar Spine Pain-	There is a commonly accepted list of known physician service (CPT) codes
related Procedures.	associated with the treatment of lumbar spine pain. The presence of one or more
	of these codes is a significant indicator for the presence of lumbar spine pain.
12. CPT Codes Identifying Lumbar Spine Pain-	It is assumed that a pattern of specific treatment occurring continuously over the
	course of ≥ 91 days tends to indicate a pattern of chronicity.
Chronicity.	
13. Drug Prescription Codes for opioid, non-	There is a commonly accepted list of nationally recognized drug codes associated
steriodal or muscle relaxant indicating dosage,	with the treatment of lumbar spine pain. The presence of one or more of these
frequency. length of time, combinations	codes is an indicator for the presence of lumbar spine pain. The predictive power
consistent with spine pain treatment.	of prescription drug codes significantly increases as such drug codes are found in
I and I am I a	combination with one another.
14. Drug Prescription Codes for opioid, non-	A patient's drug treatment regiment is significantly related to their propensity to
steriodal or muscle relaxant indicating dosage,	later develop a chronic pain condition.
frequency, length of time, combinations	
identifying patient as being at risk of developing	
a chronic lumbar pain condition.	
15. Drug Prescription Codes for opioid, non-	It is assumed that a pattern of specific treatment occurring continuously over the
steriodal or muscle relaxant indicating dosage,	course of ≥ 91 days tends to indicate a pattern of chronicity.
frequency, length of time, combinations	
consistent with chronic spine pain treatment.	
16. Emergency Room Visits (with ICD-9-CM, CPT	A patient's frequent use of emergency room services is an indicator of an
or Drug Codes, or test results) Indicating a	uncontrolled or "spiking" medical condition. It is common for lumbar spine
Lumbar Spine Condition	patients who are experiencing associated severe pain, to make use of emergency
	room services, particularly those associated with pain control. This is a
	significant indicator of the presence of uncontrolled pain.

FIG. 5b

	Pemarks
Direct Medical Indicia	TVIIIII
17. Emergency Room Visits (with ICD-9-CM, CPT	A patient's frequent use of emergency room services is an indicator of an
or Drug Codes, or test results) Indicating a	uncontrolled or "spiking" medical condition. It is common for lumbar spine
Lumbar Spine Pain Condition	patients who are experiencing associated severe pain, to make use of emergency
•	room services, particularly those associated with pain control. This is a
	significant indicator of the presence of uncontrolled pain.
18. Emergency Room Visits (with ICD-9-CM, CPT	It is assumed that a pattern of specific treatment occurring continuously over the
or Drug Codes, or test results) Establishing the	course of ≥ 91 days tends to indicate a pattern of chronicity.
Chronicity of a Lumbar Spine Pain Condition	
(time and pattern or homogeneity)	
19. Hospitalizations Visits (with ICD-9-CM, CPT or	"Days in hospital" is an indicator of a patient's uncontrolled or "spiking" medical
Drug Codes, or test results) Indicating a Lumbar	condition, and can relate to severity level of that patient's medical condition.
Spine Condition	Lumbar spine patients who are experiencing associated severe pain, are
	sometimes hospitalized for that condition. This is a significant indicator of the
	presence of uncontrolled pain.
20. Hospitalizations Visits (with ICD-9-CM, CPT or	"Days in hospital" is an indicator of a patient's uncontrolled or "spiking" medical
Drug Codes, or test results) Indicating a Lumbar	condition, and can relate to severity level of that patient's medical condition.
Spine Pain Condition	Lumbar spine patients who are experiencing associated severe pain, are
	sometimes hospitalized for that condition. This is a significant indicator of the
	presence of uncontrolled pain.
21. Hospitalizations Visits (with ICD-9-CM, CPT or	It is assumed that a pattern of specific treatment occurring continuously over the
Drug Codes, or test results) Establishing the	course of ≥ 91 days tends to indicate a pattern of chronicity.
Chronicity of Lumbar Spine Pain Condition	
(time and pattern or homogeneity)	
22. Physician Office Visits (with ICD-9-CM, CPT	Frequency of "physician office visits" is an indicator of a patient's uncontrolled
or Drug Codes, or test results) Indicating a	or "spiking" medical condition, and can relate to severity level of that patient's
Lumbar Spine Condition	medical condition. Lumbar spine patients who are experiencing associated severe
•	pain often seek in-office physician care for that condition. This is a significant
	indicator of the presence of uncontrolled pain.

FIG. 5c

Direct Medical Indicia	Remarks
23. Physician Office Visits (with ICD-9-CM, CPT or Drug Codes, or test results) Indicating a	23. Physician Office Visits (with ICD-9-CM, CPT Frequency of "physician office visits" is an indicator of a patient's uncontrolled or Drug Codes, or test results) Indicating a or "spiking" medical condition, and can relate to severity level of that patient's
Lumbar Spine Pain Condition.	medical condition. Lumbar spine patients who are experiencing associated severe pain often seek in-office physician care for that condition. This is a significant indicator of the presence of uncontrolled pain.
24. Physician Office Visits (with ICD-9-CM, CPT	24. Physician Office Visits (with ICD-9-CM, CPT Frequency of "physician office visits" is an indicator of a patient's uncontrolled
Chronicity of a Lumbar Spine Pain Condition	associated severe pain often seek in-office physician care for that condition. This is a significant indicator of the presence of uncontrolled pain.
Palliative Care	ICD-9-CM Pain patients often receive rehabilitation or palliative care services as a part of
26. Telephone Consultation (with documentation	26. Telephone Consultation (with documentation Frequency of "telephone consultations" with a care provider is an indicator of a
relating to lumbar spine pain condition)	patient's uncontrolled or "spiking" medical condition. Lumbar spine patients who are experiencing associated severe pain often contact their care for that condition. This is an indicator of the presence of uncontrolled pain.
27. Coded Trauma (related test result, procedure,	27. Coded Trauma (related test result, procedure, Trauma is a precipitating factor for certain pain indications.
etc.).	

FIG. 5d

Besic Agents I I I I I I I I I I I I I I I I I I	Direct Medical Indicia	Maximum	
### Dose (Adult) 12 tabs	TOTO TOTO TOTO TOTO TOTO TOTO TOTO TOT	Description of Dollar	Chania Dain Indicatore
12 tabs 18 tabs 16 tabs 6 tabs 6 tabs 18 tabs 8 tabs	Drug Product	Kecommended Dany	CITIOTIC I AIR IRRICACUS
12 tabs 18 tabs 16 tabs 6 tabs 6 tabs 112 tabs 18 tabs 8 tabs 6 tabs 8 tabs 8 tabs 8 tabs 8 tabs 8 tabs		Dose (Adult)	
12 tabs 18 tabs 6 tabs 3 tabs 6 tabs 6 tabs 8 tabs 8 tabs 6 tabs 8 tabs 8 tabs 8 tabs 8 tabs 8 tabs 8 tabs	Over The Counter Non-Narcotic Analgesic Agents		
mg (Motrin) 16 tabs g (Disalcid) 6 tabs ng (Dolobid) 3 tabs ng (Dolobid) 12 tabs one 5/325 (Percocat) 18 tabs one 5/325 (Percodan) 8 tabs one 5/500 (Tylox) 8 tabs odone 10/650 (Lorcet) 6 tabs odone 2.5/500 (Lorcet) 8 tabs odone 2.5/500 (Lorcet) 8 tabs	Acetaminophen (Tylenol)	12 tabs	12 tabs
mg (Motrin) 16 tabs g (Disalcid) 6 tabs ng (Dolobid) 3 tabs rd Analgesic Agents 6 tabs one 5/325 (Percocet) 12 tabs one 5/325 (Percodan) 8 tabs one 5/500 (Tylox) 8 tabs odone 10/650 (Lorcet) 6 tabs odone 2.5/500 (Lortab) 8 tabs			≥91 days
mg (Motrin) 16 tabs g (Disalcid) 6 tabs ng (Dolobid) 3 tabs rphene Napsylate 100 6 tabs 00) 12 tabs ne 5/325 (Percocet) 18 tabs ne 5/325 (Percodan) 8 tabs one 5/500 (Tylox) 8 tabs odone 10/650 (Lorcet) 6 tabs odone 2.5/500 (Lortab) 8 tabs	Asnirin 325mg	18 tabs	18 tabs
mg (Motrin) 16 tabs g (Disalcid) 6 tabs ng (Dolobid) 3 tabs d Analgesic Agents 6 tabs one 5/325 (Percocet) 12 tabs one 5/325 (Percodan) 18 tabs one 5/325 (Percodan) 8 tabs one 5/500 (Tylox) 8 tabs odone 5/500 (Vicodin) 8 tabs odone 2.5/500 (Lorcet) 6 tabs odone 2.5/500 (Lortab) 8 tabs			≥91 days
g (Disalcid) g (Disalcid) ng (Dolobid) 3 tabs d Analgesic Agents phene Napsylate 100 one 5/325 (Percocat) 12 tabs one 5/325 (Percodan) 18 tabs one 5/500 (Tylox) 8 tabs odone 5/500 (Vicodin) 8 tabs odone 2.5/500 (Lortab) 8 tabs	hThurofen 200mg (Motrin)	16 tabs	16 tabs
g (Disalcid) ong (Dolobid) d Analgesic Agents ryhene Napsylate 100 one 5/325 (Percocat) one 5/325 (Percodan) one 5/325 (Percodan) one 5/325 (Percodan) a tabs one 5/325 (Lorcet) a tabs odone 10/650 (Lorcet) a tabs a tabs odone 2.5/500 (Lortab) a tabs			≥91 days
g (Disalcid) 6 tabs ng (Dolobid) 3 tabs rphene Napsylate 100 6 tabs 00) 12 tabs one 5/325 (Percocet) 18 tabs one 5/325 (Percodan) 8 tabs one 5/500 (Tylox) 8 tabs odone 5/500 (Vicodin) 8 tabs odone 10/650 (Lorcet) 6 tabs odone 2.5/500 (Lortab) 8 tabs	Salicylate Agents		
3 tabs 6 tabs 12 tabs 18 tabs 8 tabs 6 tabs 8 tabs 8 tabs 8 tabs	Salsalate 500mg (Disalcid)	6 tabs	6 tabs
3 tabs 6 tabs 12 tabs 18 tabs 8 tabs 6 tabs 8 tabs 8 tabs 8 tabs 8 tabs			≥91 days
6 tabs 12 tabs 18 tabs 8 tabs 6 tabs 8 tabs 8 tabs 8 tabs	Diffunisal 500mg (Dolobid)	3 tabs	3 tabs
6 tabs 12 tabs 18 tabs 8 tabs 6 tabs 6 tabs 8 tabs 8 tabs 8 tabs			≥91 days
6 tabs 12 tabs 18 tabs 8 tabs 6 tabs 6 tabs 8 tabs	Onioid and Related Analgesic Agents		
5/325 (Percocet) 12 tabs 5/325 (Percodan) 18 tabs 5/500 (Tylox) 8 tabs nne 5/500 (Vicodin) 8 tabs nne 10/650 (Lorcet) 6 tabs nne 2.5/500 (Lortab) 8 tabs	APAP/Propoxyphene Napsylate 100	6 tabs	6 tabs
5/325 (Percocet) 12 tabs 5/325 (Percodan) 18 tabs 5/500 (Tylox) 8 tabs nne 5/500 (Vicodin) 8 tabs nne 10/650 (Lorcet) 6 tabs nne 2.5/500 (Lortab) 8 tabs	(Darvocet-N 100)		≥91 days
18 tabs 8 tabs a) 8 tabs (t) 6 tabs b) 8 tabs	APAP/Oxvcodone 5/325 (Percocet)	12 tabs	12 tabs
18 tabs 8 tabs 6 tabs 6 tabs 7 8 tabs			≥91 days
8 tabs 6 tabs 6 tabs 7 8 tabs	ASA/Oxycodone 5/325 (Percodan)	18 tabs	18 tabs
8 tabs 6 tabs 7 tabs 8 tabs 9 tabs			≥91 days
8 tabs 6 tabs 9 tabs 9 tabs 9 tabs 9 tabs 9 tabs	APAP/Oxvcodone 5/500 (Tylox)	8 tabs	8 tabs
6 tabs 8 tabs 8 tabs			≥91 days
6 tabs	APAP/Hydrocodone 5/500 (Vicodin)	8 tabs	8 tabs
6 tabs			≥91 days
8 tabs	APAP/Hydrocodone 10/650 (Lorcet)	6 tabs	6 tabs
8 tabs			≥91 days
	APAP/Hydrocodone 2.5/500 (Lortab)	8 tabs	8 tabs
			≥91 days

FIG. 62

Discot Medical Indicia	Maximum	Chronic Pain
Direct Medical Indica	Recommended Daily	Indicators
Ding Lounce	Dose (Adult)h	
APAP/Codeine 30/300 (Tylenol-3)	12 tabs	12 tabs
		≥91 days
Non-Steroidal Anti-inflammatory Drugs (NSAIDs)		
Celecoxib (Celebrex)	4 caps	4 caps
		≥91 days
Diclofenac 100mg ER (Voltaren XR)	2 tabs	2 tabs
		≥91 days
Ftodolac Extended Release 400mg (Lodine XL)	3 tabs	3 tabs
		≥91 days
Namoxen Controlled Release 500mg (Naprelan)	2 tabs	2 tabs
		≥91 days
Nahimeton 500mg (Relaten)	4 tabs	4 tabs
		≥91 days
Muscle Relaxants		
Carisonrodol (Soma)	4 tabs	4 tabs
		≥91 days
Chlorzoxazone (Paraflex)	12 tabs	12 tabs
		≥91 days
(Volobenzantine (Flexeril)	6 tabs	6 tabs
		≥91 days
Diazenam Smg (Valium)	8 tabs	8 tabs
		≥91 days
Metaxalone (Skelaxin)	8 tabs	8 tabs
		≥91 days
Methocarbamol 500 (Robaxin)	8 tabs	8 tabs
		≥91 days
Ornhenadrine Citrate (Norflex)	2 tabs	2 tabs
- Lander of the state of the st		≥91 days

FIG. 6b

Indinat Medical Indicia	Measure	Remarks
1 Division Office Visite	a Associated ICD-9-CM or CPT code.	Chronic pain patients frequently
1. Fillystotall Citize Visits 2 Documented reason for visit	b. Medical record notation.	visit the physician office, for pain
	c. Associated time period, either multiple visits	related reasons as well as for
	within an associated period of time; or pattern of	complaints of non-specific origin.
c. Time period establishing	visits showing elapsed period of time (e.g. >91	
	days).	
2. Emergency Room Visits	a. Associated ICD-9-CM or CPT code.	Chronic pain patients frequently
	b. Associated time period, either multiple visits	present to the ER for pain related
	within an associated period of time; or pattern of	reasons as well as for complaints
	visits showing elapsed period of time (e.g. ≥ 91	non-specific in origin.
	days months).	
3. Drug Therapy	a. Drug code for drugs (e.g. anti-inflammatory, anti-	Prescription and non-prescription
a Drug prescription	depressant, muscle relaxant, opioid) associated	drug use is a common indicator of
b Drug combinations	with pain symptom treatment.	chronic pain. Such drugs are
c. Dosing levels	b. Drug codes, when used in combination, tend to	often provided to patients from a
d Prescription patterns	indicate presence of pain.	variety of sources in an
e Time period establishing	c. Dosing level consistently high.	uncoordinated manner, or without
chronicity	d. Multiple prescribers.	the development of a patient plan
f. Pattern of substance abuse	e. Associated time period establishing elapsed period	of care.
	of time (>91 days).	
	f. Evidence of drug over use or use of illegal drugs.	
4. Telephone Consults		Chronic pain patients often
a. Documented reason for call	a. Notation in medical record, associated code if	demand more attention from their
b. Frequency of calls	possible.	caregivers than the general
c. Pattern of calls	b. Calls outside the defined range of frequency for a	population, for symptom –
d. Time period establishing	typical patient.	specific as well as for non-
chronicity	c. Clustered calls with a defined time period.	symptom specific reasons.
•	e. Associated time period establishing elapsed	
	period of time (>91 days).	

FIG. 7

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Indirect Medical Indicia	Measure	Remarks
THUILD INTO THE TRUIT TO THE TENTE TO THE TE	IOD O Wish discussion of the original with main	Chronic pain can be identified
5. Primary Diagnosis	condition or trainma or with a disease known to	through diagnostic codes two
	have associated pain condition.	ways: the pain can be a condition
	•	associated with a disease state
		such as diabetes (indirect), or it
		can be the primary reason for the
		pain condition such as low back
		pain (direct).
6. Co-Morbidities	ICD-9-CM diagnostic code associated with	Certain co-morbidities are known
	conditions known to occur with chronic pain.	to be associated with chronic
		pain.
7. Hospitalizations		Certain chronic pain patients are
a. Time period establishing	a. Associated time period either multiple visits within	frequently hospitalized, either to
chronicity	an associated period of time, or pattern of visits	treat spikes in pain, or to receive
b. Admitting diagnosis	showing elapsed period of time (e.g. ≥ 91 days).	back-related procedures.
c. Procedures performed	b. Associated ICD-9-CM diagnostic code.	
	c. Pattern of ICD-9-CM and CPT procedure codes.	
8. Evidence of trauma	a. Test results such as x-ray, contained in medical	Numerous chronic pain
a. Diagnostic test associated	record.	indications are trauma-related in
with trauma		origin (e.g. CRPS).
9. Evidence of palliative or	a. ICD-9-CM procedure codes associated with	Chronic pain patients receive a
rehabilitation care	palliative or rehabilitation care.	variety of physical therapy,
a. Documented procedure	b. Evidence of care seeking behavior relating to	chiropractic services, acupuncture
b. Pattern of care	combination of providers.	therapy and other similar types of
c. Time interval establishing	c. Associated time period, either multiple visits	services to treat their condition.
chronicity	within an associated period of time; or pattern of	
	visits showing elapsed period of time (e.g. >91	
	days).	

FIG. 7b

		n1
	Non-Medical Indicia	Kemarks
-	Patient Self-Assessment - Pain Significantly Interferes	Patient self-assessment is one important and relevant perspective
	with Life Activities	to measure the patient's perceptions relative to the impact the pain
		is having upon the quality of their life. This data is critical in
		stratifying patients; for example, a high score could trigger "a high
		need for treatment immediacy" category.
7	Patient Self-Assessment - High Pain Intensity Rating	This data is critical in stratifying patients; for example, a high
		score could trigger "a high need for treatment immediacy"
		category.
<u>س</u>	Patient Self-Assessment - Intense and Multiple Pain	This data is critical in stratifying patients; for example, a high
	Descriptors	score could trigger "a high need for treatment immediacy"
	•	category.
4.	Patient Self-Assessment - High Impact of Pain on Mood	This data point is also a quality of life indicator, measuring
		patient's perception of how pain alters personality.
\scr	Patient Self-Assessment - Low Family Support	Family support is a key indicator of treatment success. It also has
		an impact on the type of treatment that a provider will proscribe
		(For example, certain treatments are enhanced through the
		encouragement of family.)
9	Patient Self-Assessment - High Impact of Pain on Ability	This is a data point that will be of particular interest to the payer
	to Work	and employer. It also can be relevant in determining the type and
		intensity of treatment.
7.	Patient Self-Assessment - High Impact of Pain on Health	This data point is an important quality of life indicator.
	Status	
∞	Patient Self-Assessment - Downward Health Trend	This data point is an important quality of life indicator.
9.	Patient Self Assessment - Depression	Many chronic pain patients suffer from depression (accounting for
		up to 40% of overall health care costs associated with the
		treatment of low back.) It is a key chronic pain indicator, and will
		be a determining factor in course of treatment.
<u> </u>	10. Patient Self-Assessment - Low Life Satisfaction Score	This data point is an important quality of life indicator.
F	11. Patient Self-Assessment, or Family Assessment - Poor	Community support is a key indicator of treatment success.
	Community Support Structure	
12	12. Patient Self-Assessment - Low Job Satisfaction Score	This data point is an important quality of life indicator.
	1	O CAR

FIG. 8a

Non-Medical Indicia	Remarks
13. Patient Self-Assessment, or Family Assessment - Lack of Davtime Distractions	This data point is a predictor of treatment success.
14. Patient is a Smoker	Smoking complicates the delivery of health care services, has a direct relationship to health outcomes, and is a significant driver of health care costs.
15. Other Behavior CharacteristicsCurrentPast*	This is relevant to predict treatment success, to determine course of treatment, and as a stratification indicator.
16. Patient Matches Personality/Psychological Risk Profile	Personality characteristics are strong indicators of treatment success, and also provide guidance in determining choice of treatment.
17. Pending Litigation Relating to Injury	The existence of a pending lawsuit has a measurable relationship to treatment outcome, particularly as it relates to length of treatment.
18. Patient is Overweight by more than 25% of Normal Weight	Weight relates to treatment choice, treatment outcome and to health care complications (which relate to overall health care treatment costs.)
19. Patient's Job is in a High Work Risk Category	Patients in certain high-risk work categories, such as trucking and heavy industry, have a much higher incidence of low back injuries and other chronic pain indications.
20. Patient Involved in Recent or Pending Divorce	A patient's marital status relates to state of being, which is related to how well a patient will respond to treatment. It also relates to stress, which increases a patient's overall risk for an adverse health event.
21. Other Demographic Indicators: * Age * Race/ethnicity * Religion * Gender	Certain demographic factors, such as those listed, have a direct relationship to treatment choice, treatment outcome and health care complications (which relate to overall health care treatment costs.)
22. Open Workers' Compensation Claim	The existence an open workers' compensation claim is a significant predictor of treatment outcome, particularly as it relates to length of treatment. It is also a variable an employer is interested in tracking.
23. Patient has Hired an Attorney for Representation on a Work-related Injury	The existence of an attorney has a measurable relationship to treatment success.

FIG. 8b

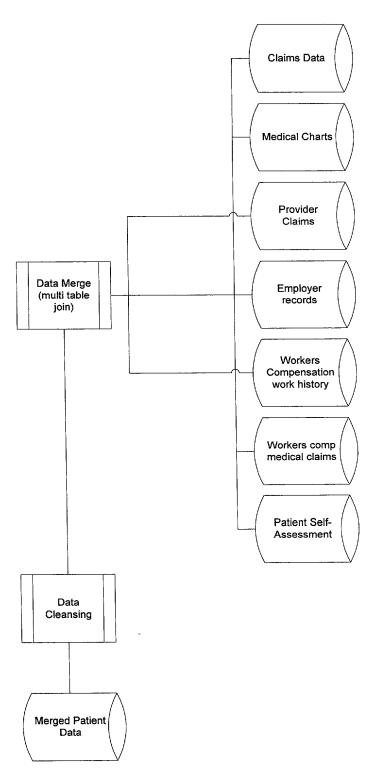


FIG. 9

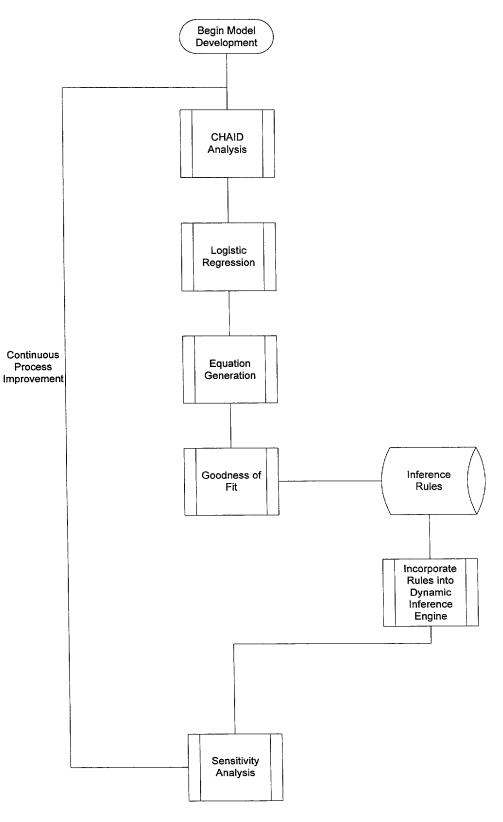


FIG. 10

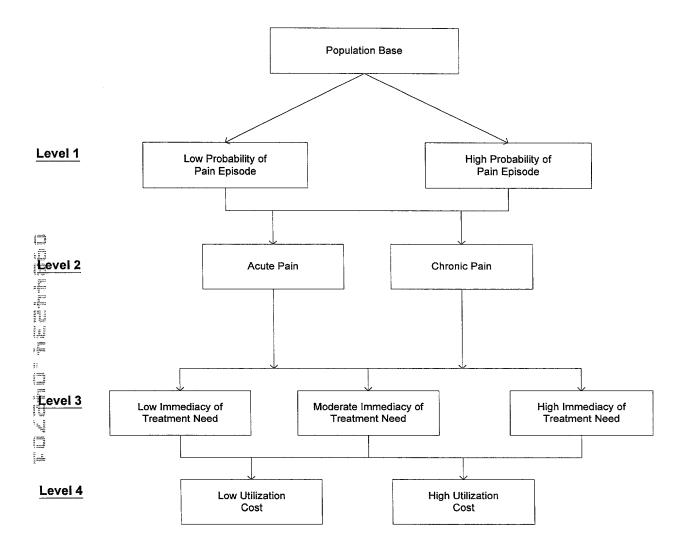


FIG. 11

	!	Stratification Combinations	ITIOUS	
Possible	Harm Reduction	Pain Stratification	Pain Treatment	Care Management
1	Low	Acute	High	High
2	Low	Acute	High	Low
3	Low	Acute	Medium	High
4	Low	Acute	Medium	Low
5	Low	Acute	Low	High
9	Low	Acute	Low	Low
7	Low	Chronic	High	High
8	Low	Chronic	High	Low
6	Low	Chronic	Medium	High
10	Low	Chronic	Medium	Low
11	Low	Chronic	Low	High
12	Low	Chronic	Low	Low
13	High	Acute	High	High
14	High	Acute	High	Low
15	High	Acute	Medium	High
16	High	Acute	Medium	Low
17	High	Acute	Low	High
18	High	Acute	Low	Low
19	High	Chronic	High	High
20	High	Chronic	High	Low
21	High	Chronic	Medium	High
21	High	Chronic	Medium	Low
23	High	Chronic	Low	High
24	High	Chronic	Low	Low

FIG. 12

FIG. 13

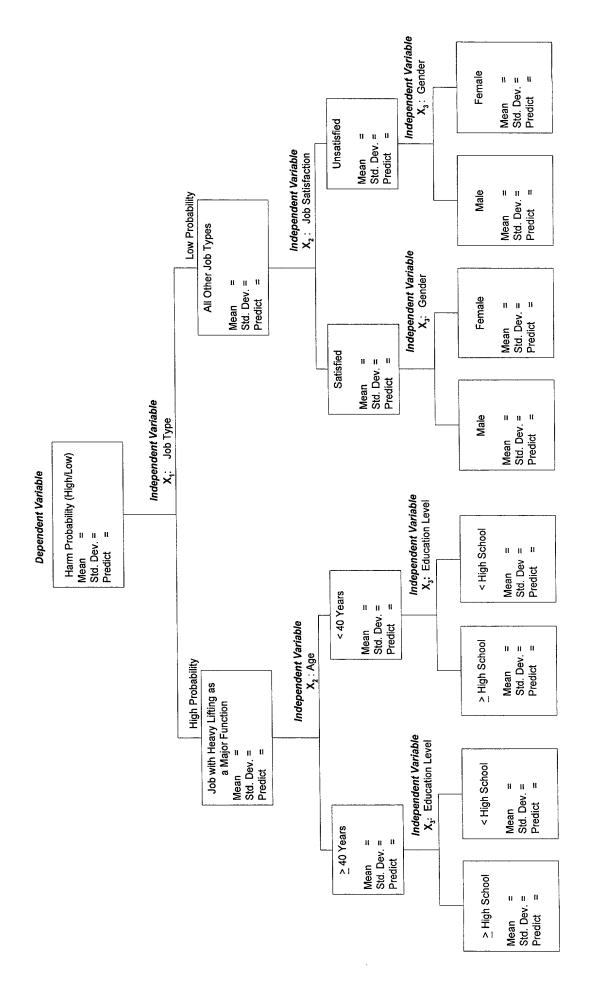


FIG. 14

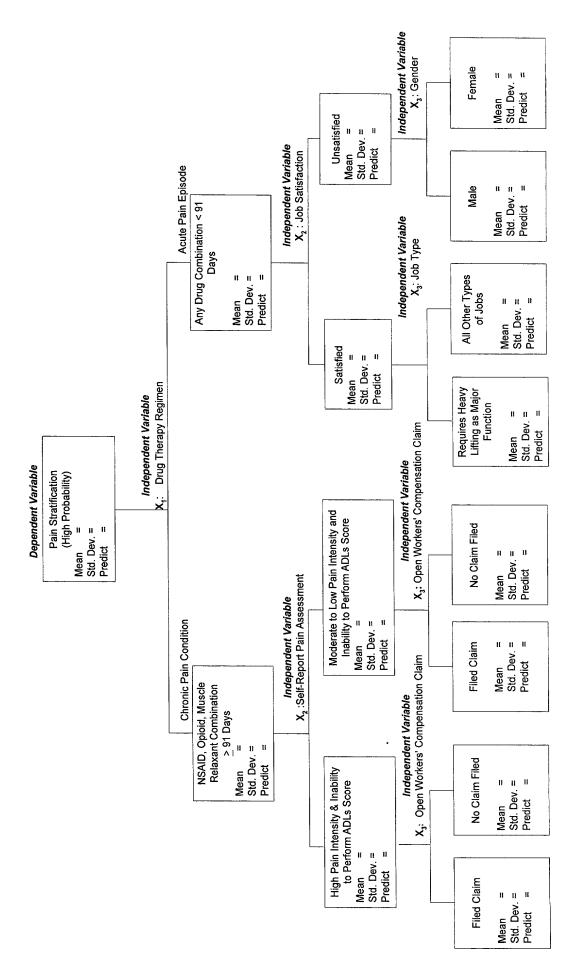


FIG. 15

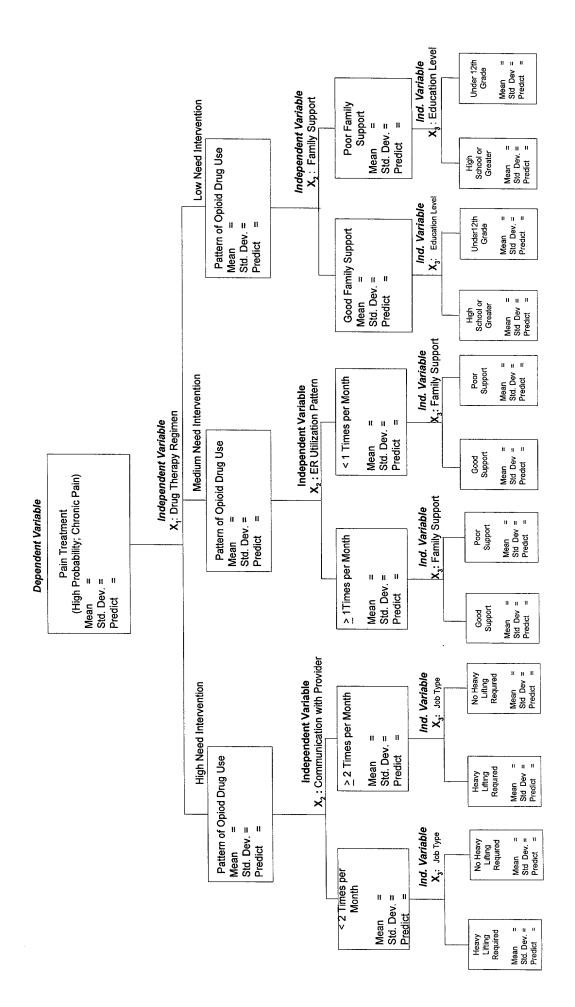


FIG. 16

Level 4 Care Management

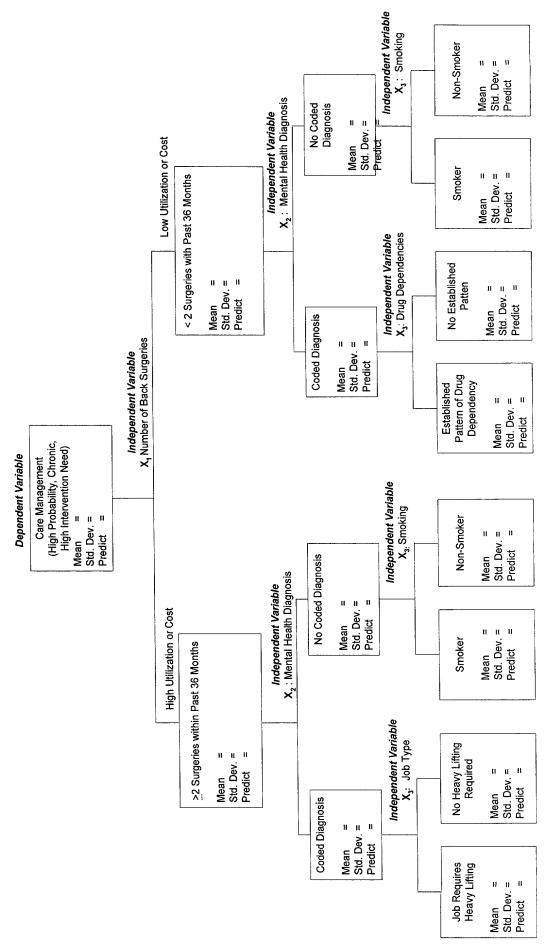


FIG. 17

Logistics Output	Variable		,
Independent Variable	Parameter	Odds Ratio	P-Value
Constant	(+)		
Number of Back Surgeries (X ₁)	(+)	3.1	P<0.05
Mental Health (≥ 40 years) (X_2)	(+)	2.1	P<0.05
Job Type (X3)	(+)	1.9	P<0.05
(X_4)			
(X ₅)			

FIG. 18

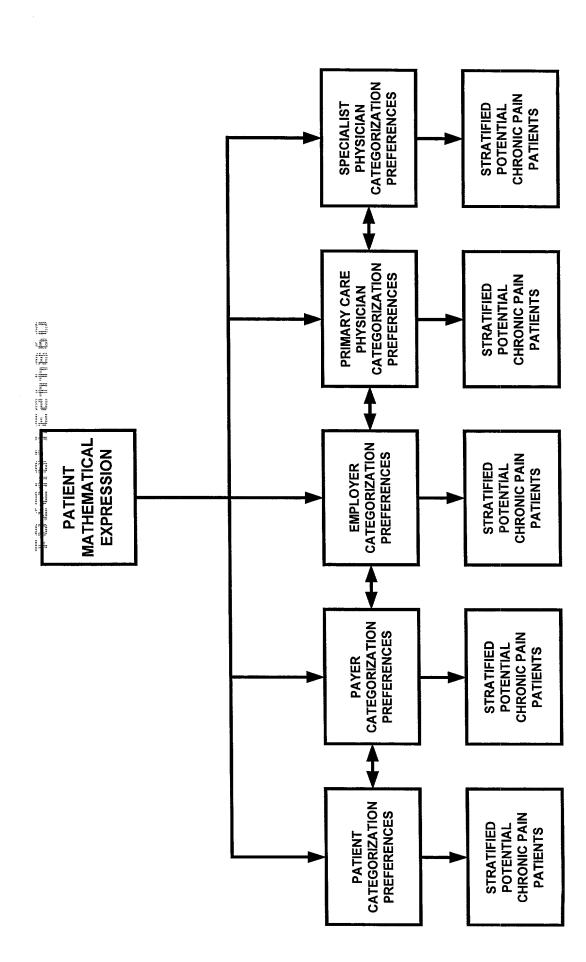


FIG. 19

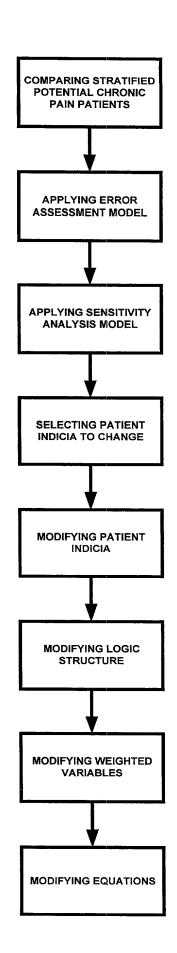


FIG. 20

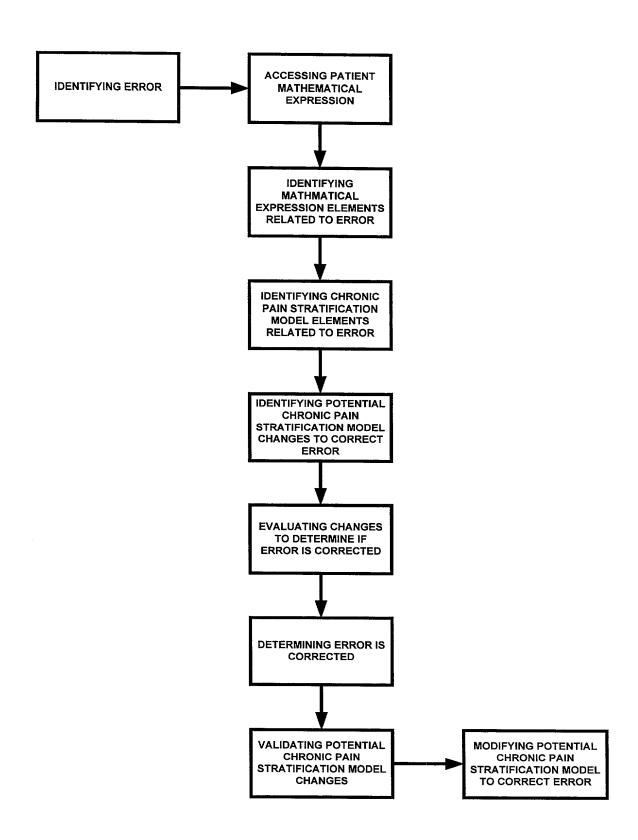
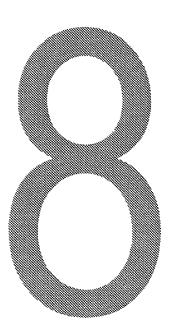


FIG. 21

UNITED STATES PATENT AND TRADEMARK OFFICE DOCUMENT CLASSIFICATION BARCODE SHEET



Oath/Declaration, Small Entity, and Power of Attorney



Level - 2 Version 1.1

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventnext to my name; that	or I hereb	y declare that: my re	esidence, post office	address and citizenship are as stated belo	
I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (solural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention extitled: CHRONIC PAIN PATIENT STRATIFICATION SYSTEM .					
The specification of which a. X is attached hereto b. was filed on filed application) described and and for which I solicit a United	applicat d claimed i d States pa	ion serial no. n international no tent.	was amended on filed and as am	$oxed{u}$ (if applicable) (in the case of a PCT mended on $oxed{u}$ (if any), which I have reviewe	
I hereby state that I have revi	ewed and ured to above	nderstand the contents	of the above-identif	ied specification, including the claims, a	
I acknowledge the duty to disclo 37, Code of Federal Regulations,			to the examination o	f this application in accordance with Titl	
I hereby claim foreign priority of inventor's certificate list pertificate having a filing date	ed below	and have also identi	fied below any fore	55 of any foreign application(s) for paten ign application for patent or inventor'. priority is claimed:	
a. X no such applications have be	e been file	ed.			
e F	OREIGN APPI	ICATION(S), IF ANY, C	LAIMING PRIORITY UNDER	R 35 USC §119	
COUNTRY	APPLICATI	ON NUMBER	DATE OF FILING	DATE OF ISSUE	
7					
ALL	FOREIGN APE	PLICATIONS, IF ANY, FI	LED BEFORE THE PRIORIT	TY APPLICATION(S)	
COUNTRY	APPLICATI	ON NUMBER	DATE OF FILING	DATE OF ISSUE	
E					
application(s) listed below and, grior United States application acknowledge the duty to disclo	insofar as n in the r se materia	s the subject matter o manner provided by the l information as def	f each of the claims on the first paragraph of ined in Title 37. Co	any United States and PCT international of this application is not disclosed in the f Title 35, United States Code, \$112, I doe of Federal Regulations, \$156(a) which expanding date of this application.	
U.S. APPLICATION NUMBER	U.S. APPLICATION NUMBER			STATUS (patented, pending, abandoned)	

⁽a) A duty of candor and good faith toward the Patent and Trademark Office rests on the inventor, on each attorney or agent who prepares or prosecutes the application and on every other individual who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application. All such individuals have a duty to disclose to the Office information they are aware of which is material to the examination of the application. Such information is material where there is substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent. The duty is commensurate with the degree of involvement in the preparation or prosecution of the application.

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)
60/258,556	29 December 2000

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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